

**REMARKS**

This Preliminary Amendment seeks to place this application in condition for allowance. Several of the pending claims have been amended. No new matter has been added. In this regard, support may be found, for example, at page 22, line 11, to page 24, line 2, and page 27, lines 1-24 of the specification.

**INFORMATION DISCLOSURE STATEMENT**

Submitted concurrently herewith is an Information Disclosure Statement (IDS) and modified form PTO-1449. A copy of the IDS and PTO-1449 is attached hereto. The documents listed in the PTO-1449 are documents which were cited and provided in a parent application of the above-referenced application, namely Application Serial No. 09/492,982, filed January 27, 2000. Pursuant to 37 C.F.R. §1.98(d) and M.P.E.P. §609, copies of the documents listed in the modified Form PTO-1449 are not provided with the IDS. It is respectfully requested that the Examiner make his consideration of these documents formally of record with the initial Office Action.

**CONCLUSION**

Applicants request entry of the foregoing amendment prior to examination of this application. Applicants submit that all of the claims present patentable subject matter. Accordingly, Applicants respectfully request allowance of all of the claims.

Respectfully submitted,

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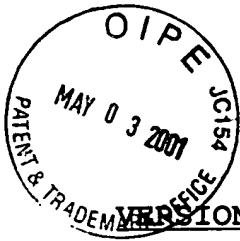


EXHIBIT A

VERSION WITH MARKINGS TO SHOW CHANGES MADE

1 151. (Amended) A method of operation of a synchronous memory  
2 device, wherein the memory device includes an array of memory cells,  
3 the method of operation [of the memory device] comprises:

4 receiving an external clock signal;

5 receiving block size information, wherein the block size  
6 information defines an amount of data to be output by the memory device  
7 in response to a first operation code [read request];

8 receiving the first operation code synchronously with respect to  
9 the external clock signal wherein the first operation code instructs  
10 the memory device to perform a read operation;

11 [receiving a first read request synchronously with respect to a  
12 rising edge transition of the external clock signal;] and

13 outputting the amount of data[,] in response to the first  
14 operation code [read request, the amount of data corresponding to the  
15 block size information].

1 152. (Amended) The method of claim 151 wherein the block size  
2 information also defines an amount of data to be input by the memory  
3 device, wherein the amount of data is input in response to a second  
4 operation code, and wherein the second operation code instructs the  
5 memory device to perform a write operation [write request], the method  
6 further including:

7 receiving the second operation code [a first write request]  
8 synchronously with respect to a transition of the external clock  
9 signal; and

10 inputting the amount of data[,] in response to the second  
11 operation code [first write request, the amount of data corresponding  
12 to the block size information].

1 153. (Amended) The method of claim 152 wherein a first portion of  
2 the amount of data is sampled, in response to the second operation code  
3 [first write request], after a delay time transpires.

1           154. The method of claim 151 wherein the amount of data is output  
2 synchronously with respect to the external clock signal.

1           155. (Amended) The method of claim 154 wherein a first portion of  
2 the amount of data is output synchronously with respect to a rising  
3 edge transition of the external clock signal and a second portion of  
4 the amount of data is output synchronously with respect to a falling  
5 edge transition of the external clock signal.

1           156. (Amended) The method of claim 151 wherein the memory device  
2 receives the block size information synchronously with respect to the  
3 external clock signal [the first read request is specified by an  
4 operation code].

1           157. (Amended) The method of claim [156] 151 wherein the first  
2 operation code includes precharge information.

1           158. (Amended) The method of claim [156] 151 wherein the first  
2 operation code is included in a request packet.

1           159. (Amended) The method of claim 158 wherein the block size  
2 information and the first operation code are both included in the same  
3 request packet.

1           160. The method of claim 158 wherein the request packet includes  
2 address information.

1           161. (Amended) The method of claim 151 wherein the block size  
2 information is an encoded value and wherein the block size information  
3 is sampled synchronously with respect to a rising or falling edge of  
4 the external clock signal.

1           162. (Amended) The method of claim 151 further including:  
2           receiving a [code] value which is representative of a number of  
3 clock cycles of the external clock signal to transpire before the  
4 memory device outputs the data [responds to the first read request];  
5 and

6           receiving a third operation code wherein the third operation code  
7 instructs the memory device to store the value in a programmable  
8 register on the memory device [storing the code in a register].

1           163. (Amended) The method of claim 162 wherein the memory device  
2 outputs the data on an external bus [outputs a first portion of data]  
3 after the number of clock cycles of the external clock signal  
4 transpire.

1           164. (Amended) The method of claim 163 wherein the external bus  
2 includes a plurality of signal lines to multiplex control information,  
3 address information, and the amount of data [151 wherein the block size  
4 information is a binary code].

1           165. (Amended) A method of controlling a synchronous memory device  
2 by a controller, wherein the memory device includes an array of memory  
3 cells, the method of controlling the memory device comprises:

4           providing block size information to the memory device[,]  
5 synchronously with respect to an external clock signal, wherein the  
6 block size information defines an amount of data to be output by the  
7 memory device [in response to a read request]; and

8           issuing a first operation code [read request] to the memory device  
9 synchronously with respect to the external clock signal, wherein the  
10 first operation code instructs the memory device to perform a read  
11 operation [memory device receives the first read request synchronously  
12 with respect to a transition of the external clock signal].

1           166. The method of claim 165 further including receiving the  
2 amount of data from the memory device.

1           167. (Amended) The method of claim 165 further including providing  
2 a binary value [code] to the memory device, wherein the binary value  
3 [code] is representative of a number of clock cycles of the external  
4 clock signal to transpire before the memory device outputs the amount  
5 of data in response to the first operation code [responds to the first  
6 read request].

1           168. (Amended) The method of claim 167 further including  
2 providing [a set register request] a second operation code to the  
3 memory device, wherein the second operation code instructs the memory  
4 device to store the binary value in a register on the memory device  
5 [memory device stores the code in a register in response to the set  
6 register request].

1           169. (Amended) The method of claim 165 wherein the first operation  
2 code is issued synchronously with respect to a rising or falling edge  
3 transition of the external clock signal [read request is specified by  
4 an operation code].

1           170. (Amended) The method of claim 165 [169] wherein the first  
2 operation code includes precharge information.

1           171. (Amended) The method of claim 165 [169] wherein the first  
2 operation code is provided to the memory device via an external bus  
3 [the operation code is included in a request packet].

1           172. (Amended) The method of claim 171 wherein the external bus  
2 includes a plurality of signal lines to multiplex control information,  
3 address information and data [block size information is included in a  
4 request packet].

5           173. (Amended) The method of claim 165 [171] wherein the block  
6 size information and the first operation code are both included in [the  
7 same] a request packet.

8           174. (Amended) The method of claim 165 further including providing  
9           address information to the memory device [171 wherein the request  
10          packet further includes address information].

1           175. The method of claim 165 wherein the block size information  
2          is a binary code.

1           176. (Amended) A synchronous dynamic random access [semiconductor]  
2          memory device having at least one memory section including a plurality  
3          of memory cells, the memory device comprising:  
4           clock receiver circuitry to receive an external clock signal;  
5           input receiver circuitry, including a first plurality of input  
6          receivers to receive block size information synchronously with respect  
7          to the external clock signal, wherein the block size information  
8          defines an amount of data to be output by the memory device in response  
9          to a first operation code [read request]; and  
10         a plurality of output drivers to output the amount of data  
11         [corresponding to the block size information, wherein the first amount  
12         of data is output] in response to the first operation code [read  
13         request].

1           177. The memory device of claim 176 wherein the amount of data is  
2          output synchronously with respect to the external clock signal.

1           178. (Amended) The memory device of claim 177 wherein a first  
2          portion of the amount of data is output synchronously with respect to  
3          a rising edge transition of the external clock signal and a second  
4          portion of the amount of data is output synchronously with respect to  
5          a falling edge transition of the external clock signal.

1           179. (Amended) The memory device of claim 176 wherein the input  
2          receiver circuitry receives the first operation code synchronously with  
3          respect to the external clock signal [first read request is specified  
4          by an operation code].

1           180. (Amended) The memory device of claim 179 wherein the input  
2 receiver circuitry includes a second plurality of input receivers to  
3 receive the first operation code [the operation code is included in a  
4 request packet].

1           181. (Amended) The memory device of claim 180 wherein the first  
2 and second plurality of input receivers are coupled to an external bus  
3 [the block size information is included in a request packet].

1           182. (Amended) The memory device of claim 181 wherein the  
2 external bus includes a plurality of signal lines to multiplex control  
3 information, address information and the data [block size information  
4 and the operation code are included in the same request packet].

1           183. (Amended) The memory device of claim 179 wherein the first  
2 operation code includes precharge information.

1           184. (Amended) The memory device of claim 176 further including  
2 a programmable register to store a value which is representative of a  
3 number of clock cycles of the external clock signal to transpire before  
4 the memory device outputs the data in response to the first operation  
5 code [responds to a read request].

1           185. (Amended) The memory device of claim 176 wherein the block  
2 size information further defines an amount of data to be input by the  
3 memory device in response to a second operation code, wherein the  
4 second operation code instructs the memory device to perform a write  
5 operation, and wherein the input receiver circuitry receives the amount  
6 of data in response to the second operation code [in response to a  
7 write request].

1           186. (Amended) The memory device of claim 185 wherein the input  
2 receiver circuitry and the plurality of output drivers are coupled to  
3 an external bus [samples a first portion of the amount of data in  
4 response to the write request].

1           187. (Amended) The memory device of claim 186 wherein the external  
2 bus includes a plurality of signal lines to multiplex control  
3 information, address information and the amount of data to be input  
4 [input receiver circuitry samples the first portion of the amount of  
5 data, in response to the write request, after a delay time transpires].

1           188. The memory device of claim 176 further including delay lock  
2 loop circuitry coupled to the clock receiver circuitry to generate an  
3 internal clock signal, wherein the plurality of output drivers output  
4 data in response to the internal clock signal.

1           189. (Amended) The method of claim 176 wherein the [first] block  
2 size information is a binary code.